



U.S. Department of Commerce
BUREAU OF THE CENSUS



Manufacturers' Shipments, Inventories, and Orders

AUGUST 1980

M3-1(80)-8
FOR WIRE TRANSMISSION, 3:00 P.M. October 1, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in August increased \$0.5 billion or 0.3 percent to \$147.4 billion the Department of Commerce, Bureau of the Census reported today. An increase in orders for nondurable goods more than offset a \$1.1 billion or 1.5 percent decline in durable goods orders.

The decline in durable goods orders, which followed a large increase in July of 11.3 percent, was caused mostly by the aircraft industries. New orders for aircraft and parts dropped \$2.4 billion or 41 percent to \$3.3 billion, after an 18 percent increase last month. Excluding the aircraft industries, durable goods orders showed an increase of 1.8 percent.

The most significant increases in durable goods new orders came from the electrical machinery and steel industries. Orders for electrical machinery were up \$1.2 billion or 12.6 percent to \$10.9 billion, while new orders reported by steel producers increased \$1.0 billion or 20 percent to \$5.7 billion. This is the third consecutive month a significant increase has been reported in steel orders.

In the capital goods industries, new orders for nondefense capital goods declined \$1.3 billion or 6.0 percent to \$20.3 billion. A decrease in commercial aircraft and parts orders accounted for over two-thirds of the decline. Excluding aircraft, orders for nondefense capital goods were down 0.6 percent, with increases in electrical machinery orders offsetting declines in the nonelectrical machinery category. New orders for defense capital goods were down \$0.4 billion or 8.2 percent to \$4.0 billion. Here also a decline in the aircraft industry more than offset increases in the other defense categories.

Shipments of manufactured goods in August increased \$1.8 billion or 1.2 percent to \$147.2 billion. This followed a \$3.9 billion or 2.7 percent increase in July. In the durable goods industries shipments increased \$0.5 billion or 0.7 percent to \$72.8 billion. Primary metal shipments totaled \$10.7 billion, for a \$0.5 billion or 4.7 percent increase; electrical and non-electrical machinery shipments totaled \$24.4 billion for a \$0.4 billion or 1.8 percent increase.

In the transportation equipment industries all categories except shipbuilding had declines in shipments. Aircraft and parts shipments were down \$0.3 billion or 6.4 percent to \$4.0 billion, while motor vehicle and parts shipments¹ were down \$0.1 billion or 1.2 percent to \$8.5 billion.

¹ Motor vehicle assembly plants close down for retooling, generally during July, August, and September, for the forthcoming model year.

Shipments by the household durable goods industries declined \$0.1 billion or 2.3 percent to \$4.7 billion. An increase in July shipments of household durable goods of 5.1 percent followed 4 consecutive months of decline.

Shipments by the nondurable goods industries increased \$1.3 billion or 1.8 percent to \$74.4 billion. The foods category was up \$0.9 billion or 4.4 percent; petroleum, up \$0.5 billion or 3.3 percent; chemicals, up \$0.4 billion or 3.4 percent; and rubber and plastics products, up \$0.2 billion or 4.3 percent. All other nondurable categories had declines.

The value of manufacturers' orders backlogs in August stood at \$282.6 billion, virtually unchanged from July. Since December 1979 when the backlog level was at \$279.7 billion, its value has increased only 0.1 percent per month as compared to the average monthly increase for all of 1979 of 1.3 percent.

Industries reporting significant increases in backlog in August were steel, up \$1.0 billion or 6.9 percent; electrical machinery, up \$0.5 billion or 1.4 percent; and shipbuilding and military up \$0.4 billion or 3.6 percent. Virtually all other industries reported declines.

The book value of manufacturers' inventories declined \$0.5 billion or 0.2 percent in August to \$243.6 billion. This is the first monthly decline reported since the 0.2 percent decline recorded in December 1975. The August inventory decline resulted from a billion dollar drop in the value of non-durable goods inventories. All nondurable goods categories except foods reported decreases. The value of inventories of durable goods manufacturers increased \$0.5 billion or 0.3 percent in August. Excluding the aircraft industries inventories of durable goods manufacturers also had a slight decline.

The figures on the durable goods industries in this report supersede those issued earlier this month. The present report is based on more complete reporting, but is still considered preliminary. Final figures will appear in the full report scheduled for release on October 31. The advance report on durable goods for September is scheduled for release on October 22.

Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recomputed each month as additional information is received. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

Industry	Seasonally adjusted				Without seasonal adjustment ¹										Year-to-date		
	Monthly				Quarterly		Monthly										
	Aug. 1980 ²	July 1980 ²	June 1980	May 1980	II 1980	I 1980	IV 1979	Last 4 months						Last 4 months (a year ago)		1980	1979
								Aug. 1980 ²	July 1980 ²	June 1980	May 1980	Aug. 1979	July 1979	June 1979	May 1979		
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																	
All manufacturing industries:	147 181	145,429	141,573	141,515	426,684	455,058	436,162	145,123	134,602	149,249	143,186	140,375	131,605	147,053	144,304	1 169 262	1,119,666
Total, excluding trans- portation.....	132,885	130,746	128,615	128,216	386,151	406,995	390,883	133,180	122,149	134,940	129,264	127,236	118 022	129,967	126,114	1,055,181	977 034
Total for industries with un- filled orders.....	75,916	76,045	73 710	74,114	224,205	240,176	228,465	75,194	69,168	78,672	75,166	74,499	68,468	78,699	76,490	613 282	587 391
Durable goods industries, total.	72,767	72,295	69 056	69,443	210,706	233,032	223,466	70,128	65,260	74,880	71,296	71,365	67,066	78 976	77 997	586 228	589 115
Durable goods with unfilled orders.....	61,139	60,688	58,739	59,178	179,104	194,066	186,551	60 060	55,006	63,354	60,310	59,801	54,927	64,208	62,284	493 108	476 307
Nondurable goods industries, total.....	74,414	73,134	72,517	72,072	215,978	222,026	212,675	74,995	69,142	74,369	71,890	69,010	64,539	68,077	66 307	583,034	500,531
Nondurable goods with unfilled orders.....	14,777	15,357	14,971	14,936	45,101	46,110	43,914	15,134	14,162	15,318	14,856	14,698	13,541	14,491	14 206	120 174	110 886
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																	
Market categories:	10,634	10,949	10,724	10,566	31,961	34,337	32,768	11,576	9,916	11,018	10,101	11,721	9,590	10,799	9,906	85,975	80,534
Home goods and apparel.....	27,991	27,123	26,708	26,151	77,929	77,944	78,056	27,948	25,761	27,145	25,861	4,980	24,203	24,914	24,339	208,559	193,146
Consumer staples.....	21 899	21,867	21,510	21,681	64,298	64,900	61,635	20,958	19,965	23,377	21,874	19,370	18,065	20,700	19,618	172,073	153,959
Equipment and defense pro- ducts, except automotive.....	10,309	10,332	8,767	8,758	27,309	33,736	34,139	8,284	8,480	9,771	9,408	9,481	10,146	13,404	14,729	80,841	104,830
Automotive equipment.....	11,734	11,819	11,110	10,793	33,546	38,558	38,428	12,550	11,638	12,281	11,352	13,452	12,364	13,605	13,079	95 130	97 211
Construction materials, up- plies, and intermediate products.....	64,616	63,339	62,754	63,566	191,641	205,583	191,136	63,807	58,862	65,657	64,610	61,171	57,237	63,631	62,633	362,684	479 894
Other materials and supplies and intermediate products.....	4,711	4,824	4,588	4,616	13,928	15,211	14,479	4,991	4,110	4,781	4,513	4,955	4,038	4,850	4,488	37,619	31 431
Supplementary series: ²	24,423	24,496	24,063	24,202	72,176	73,344	69,422	23,307	22,277	26,005	24,224	21,768	20,232	23,540	21,988	193,070	176,289
Household durable goods indus- tries.....	20,970	21,043	20,628	20,762	62,015	63,626	60,048	19,966	19,068	22,422	20,742	18,879	17,614	20,413	19,124	166,609	151,394
Capital goods industries.....	3,453	3,453	3,435	3,440	10,161	9,718	9,375	3,341	3,209	3,583	3,482	2,849	2,618	3,127	2,864	26,461	22,890
Nondefense.....	3,983	4,063	3,798	3,808	11,550	12,649	12,501	4,308	3,954	4,208	3,946	4,386	4,016	4,471	4,263	32,039	31,482
Defense.....	390	409	382	363	1,113	1,075	1,075	412	386	409	374	350	311	350	335	3,021	2,613
Glass containers.....	10,739	10,258	9,791	10,268	31,392	38,196	35,906	10,382	9,415	10,674	10,985	11,482	10,955	12,599	13,055	92,096	94,240
Primary metals, total.....	4,650	4,352	4,293	4,675	14,353	17,490	17,371	4,538	4,117	4,740	5,002	5,712	5,603	6,208	6,656	42,082	46,438
Iron and steel mills.....	5,149	5,007	4,570	4,635	14,074	17,155	15,178	4,938	4,506	4,913	4,955	4,726	4,381	5,192	5,173	41,620	45,351
Nonferrous and other primary metals.....	8 740	8,659	8,406	8,441	25,981	28,700	27,709	8,923	8,082	9,095	8,719	9,332	8,477	9,787	9,620	71,984	72,704
Fabricated metal prod., total.	804	786	767	800	2,387	2,602	2,512	961	873	886	838	984	894	933	897	6,732	6,497
Total cans, barrels, and drums.....	14,083	13,945	13,822	13,538	40,734	42,282	40,639	13,328	12,680	14,999	13,714	12,781	12,039	14,043	13,251	111 170	103,634
Machinery, except electrical, total.....	1,081	1,204	1,140	1,134	3,266	3,343	3,272	982	985	1,232	1,126	1,046	883	1,202	1,076	8,908	9,412
Engines and turbines.....	1,078	1,093	1,043	1,087	3,076	3,200	3,350	982	894	1,136	1,168	1,124	1,038	1,166	1,236	8,715	8,958
Farm machinery and equipment	2 525	2,547	2,504	2,565	7,676	8,499	7,891	2,447	2,455	2,664	2,642	2,669	2,569	2,796	2,732	21,518	21,163
Construction, mining, and material handling equipment	883	817	900	869	2,624	2,664	2,537	802	714	1,009	876	703	676	876	768	6,084	6,965
General industrial machinery.....	1,153	1,175	1,175	1,129	3,529	3,630	3,506	1,118	1,076	1,282	1,154	1,078	981	1,148	1,087	9,459	9,470

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Billions of dollars)

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹					Year--date						
		Monthly					Monthly											
		Quarterly					Last 4 months											
		Aug. 1980P	July 1980P	June 1980	May 1980	II 1980	I 1980	IV 1979	Aug. 1980P	July 1980P	June 1980		May 1980	Aug. 1979	July 1979	June 1979	May 1979	
INDUSTRY GROUPS, AND INDUSTRIES--Continued																		
36	Electrical machinery, total...	10,358	10,067	9,893	10,048	29,819	30,858	28,614	10,135	8,971	10,500	9,838	9,029	8,178	9,851	8,990	79,952	71,717
361.2	Electrical transmission and distribution equipment and industrial apparatus.....	1,714	1,697	1,706	1,633	5,028	5,358	5,033	1,655	1,491	1,839	1,656	1,534	1,465	1,805	1,718	13,854	13,420
363	Household appliances.....	1,101	1,025	1,029	1,002	3,050	3,594	3,381	1,139	1,023	1,125	1,017	1,112	1,066	1,170	1,085	8,758	8,399
365	Radio and TV.....	726	725	593	672	1,886	2,022	1,754	749	584	635	558	610	500	709	557	4,952	4,791
366	Communication equipment.....	3,167	3,110	3,030	3,218	9,256	8,902	8,677	3,062	2,749	3,267	3,193	2,641	2,278	2,870	2,551	24,312	20,111
367	Electronic components.....	1,922	1,823	1,857	1,823	5,499	5,339	4,620	1,830	1,641	1,901	1,814	1,472	1,386	1,564	1,462	14,393	11,510
37	Transportation equipment, total.....	14,296	14,683	12,958	13,299	40,533	46,063	45,279	11,943	12,453	14,309	13,922	13,139	13,583	17,086	18,190	114,081	132,612
371	Motor vehicles and parts.....	8,500	8,607	7,231	7,259	22,722	28,039	28,606	6,506	6,842	8,059	7,772	7,640	8,487	11,567	12,883	66,897	89,917
372,6	Aircraft, missiles, and parts.....	3,989	4,262	3,977	4,292	12,550	11,714	11,125	3,755	3,923	4,353	4,333	3,731	3,522	3,713	3,635	32,180	28,697
3731	Shipbuilding and military tank vehicles.....	882	788	794	862	2,459	2,655	2,346	824	754	852	842	704	682	736	627	6,548	6,120
38	Instruments and related products, total.....	3,532	3,375	3,348	3,334	9,944	10,623	9,566	3,538	3,091	3,574	3,318	3,021	2,765	3,211	2,943	26,972	23,111
381-4	Scientific and engineering.....	2,008	1,922	1,975	1,884	5,734	6,047	5,587	1,962	1,734	2,113	1,909	1,705	1,569	1,873	1,751	15,612	13,576
386	Photographic goods.....	1,357	1,271	1,206	1,274	3,693	4,021	3,367	1,400	1,203	1,287	1,240	1,097	1,017	1,131	991	9,982	7,948
24	All other durable goods industries.....	7,036	7,245	7,040	6,707	20,753	23,661	23,273	7,571	6,814	7,521	6,854	8,193	7,053	7,928	7,685	57,934	49,114
20	Nonferrous metals industries: Food and kindred products, total.....	21,820	20,898	20,589	20,116	59,409	60,656	60,860	21,695	19,843	20,864	20,013	19,544	18,863	19,604	19,268	161,686	152,442
201	Meat products.....	5,096	4,860	4,687	4,465	13,566	14,653	15,568	5,101	4,695	4,725	4,635	5,007	4,906	5,137	5,368	38,057	41,298
208	Beverages.....	2,786	2,701	2,660	2,604	7,739	7,512	7,165	2,881	2,809	3,025	2,700	2,423	2,350	2,611	2,731	20,744	19,161
207	Fats and oils.....	1,682	1,681	1,392	1,516	4,377	4,997	4,882	1,616	1,549	1,417	1,500	1,484	1,638	1,580	1,553	12,686	12,694
203-6,9	All other foods.....	9,185	8,605	8,839	8,537	25,330	24,997	25,059	9,010	7,831	8,689	8,187	7,779	7,301	7,540	7,286	66,898	59,441
21	Tobacco products.....	1,192	1,205	1,012	1,129	3,344	3,231	3,133	1,216	1,187	1,065	1,145	1,064	1,126	885	1,040	8,870	7,910
22	Textile mill products.....	3,966	4,027	3,954	3,992	12,124	12,690	11,962	3,973	3,397	4,190	4,067	3,941	3,419	4,207	3,973	32,333	30,612
26	Paper and allied products, total.....	5,657	5,845	5,756	5,649	17,239	17,747	16,834	5,832	5,521	6,081	5,742	5,795	5,507	5,770	5,637	46,803	44,948
261-3	Pulp, paper, etc.....	2,631	2,744	2,798	2,661	8,217	8,282	7,889	2,702	2,608	2,927	2,745	2,654	2,413	2,633	2,569	22,044	19,553
265	Paperboard containers.....	1,241	1,286	1,280	1,242	3,867	4,105	3,719	1,299	1,193	1,320	1,260	1,288	1,135	1,237	1,236	10,510	9,638
264	All other paper containers.....	1,785	1,815	1,678	1,746	5,155	5,400	5,226	1,831	1,720	1,834	1,737	1,851	1,959	1,900	1,834	14,249	14,441
28	Chemicals and allied products, total.....	13,312	12,869	12,502	12,701	38,234	41,144	39,813	12,970	11,823	13,263	13,150	12,228	11,818	13,175	12,898	106,718	93,101
281,6	Industrial chemicals, except pigments.....	4,391	4,261	4,151	4,323	13,154	14,653	13,771	4,285	3,984	4,380	4,509	4,354	4,166	4,562	4,460	37,218	34,276
283,4	Drugs, soap, and toiletries.....	3,953	3,870	3,768	3,714	10,968	10,680	10,624	3,906	3,514	3,896	3,451	3,283	3,309	3,450	3,024	29,001	27,276
29	Petroleum and coal products.....	14,427	13,960	14,760	14,751	43,724	43,163	38,431	14,510	14,104	14,829	14,485	11,968	11,084	10,909	10,388	115,017	81,101
30	Rubber and plastics products, n.e.c.....	3,768	3,611	3,406	3,311	10,236	11,561	11,009	3,792	3,281	3,603	3,404	3,804	3,415	3,923	3,893	29,261	30,198
23	All other nondurable goods industries.....	10,272	10,719	10,538	10,423	31,268	31,814	30,613	11,007	10,186	10,474	9,884	10,680	9,307	9,604	9,210	82,346	74,149

¹Preliminary.²Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

³The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--The capital goods industries series is comparable to the previous Producers' Capital goods and the Defense Products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the NA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 2.--VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

Industry	Millions of dollars ¹									
	Seasonally adjusted					Without seasonal adjustment ¹				
	Monthly			Quarterly		Monthly			Year-to-date	
	Aug. 1980P	July 1980P	June 1980	May 1980	II 1980	I 1980	IV 1979	Last 4 months Aug. 1980P July 1980P June 1980 May 1980	Last 4 months July 1979 June 1979 May 1979	1980 1979
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL										
All manufacturing industries:										
Total.....	147,361	146,855	138,582	138,920	420,815	462,256	442,838	136,338	145,566	138,924
Total, excluding transportation.....	133,718	130,742	125,910	124,600	376,313	413,458	393,493	122,049	131,799	125,179
Total for industries with unfilled orders.....	76,096	77,471	70,719	71,519	218,336	267,376	235,142	70,904	74,989	70,904
Durable goods industries:										
Total.....	72,866	73,979	66,454	67,328	206,198	240,034	229,624	67,191	71,700	67,663
Durable goods with unfilled orders.....	61,238	62,372	56,117	57,063	174,596	201,068	190,688	56,937	60,174	56,677
Nondurable goods industries:										
Total.....	74,495	72,876	72,128	71,592	214,617	222,222	213,214	69,147	73,866	71,261
Industries with unfilled orders.....	14,838	15,099	14,582	14,456	43,740	46,306	44,453	13,967	14,815	14,227
Industries without unfilled orders.....	59,657	57,777	57,546	57,136	170,877	175,916	168,761	55,180	59,051	57,034
Market categories:										
Home goods and apparel.....	10,724	10,880	10,613	10,283	31,466	34,372	32,463	11,583	10,932	9,928
Consumer staples.....	27,962	27,107	26,712	26,135	77,952	77,996	78,025	27,922	27,140	25,808
Equipment and defense products, except aircraft.....	22,076	21,728	20,802	22,307	66,295	69,510	66,721	20,144	22,482	21,120
Automotive equipment.....	10,108	10,444	8,359	8,348	25,655	33,202	33,140	8,159	9,328	8,914
Construction materials, supplies, and intermediate products, other materials and supplies and intermediate products.....	11,586	11,665	10,906	10,838	33,196	38,419	38,208	12,380	12,015	11,428
Supplementary series ²	64,905	65,031	61,190	61,009	186,251	208,757	194,281	64,201	63,669	61,726
Durable goods industries:										
Textiles.....	4,821	4,728	4,503	4,417	13,633	15,414	14,031	5,010	4,726	4,414
Capital goods industries.....	24,328	25,974	23,500	24,868	75,478	79,556	75,978	22,677	24,459	23,383
Nondefense.....	20,319	21,608	19,954	19,589	61,705	67,929	65,112	19,462	21,565	18,865
Defense.....	4,009	4,366	3,546	5,279	13,773	11,627	10,867	3,215	3,652	4,518
Durable goods industry	3,938	4,056	3,647	3,775	11,184	12,799	12,337	4,207	4,031	3,873
Stone, clay and glass.....	11,600	10,811	8,947	8,373	27,000	37,760	35,593	11,005	9,311	9,126
Primary metals, total.....	5,671	5,721	3,881	3,356	11,361	16,831	16,502	5,273	4,075	3,839
Blast furnaces, steel mills, nonferrous and other primary metal products.....	5,018	5,290	4,250	4,368	13,267	17,218	15,651	4,861	4,502	4,587
Fabricated metal products.....	8,304	8,621	8,076	8,333	25,271	29,053	28,114	8,727	8,030	8,626
Machinery, except electrical, total.....	13,724	14,177	13,085	12,701	37,437	43,496	41,834	13,014	14,314	12,692
Engines and turbines.....	1,182	1,017	814	1,057	2,911	3,480	3,117	1,073	903	1,006
Construction, mining, and material handling equipment.....	2,392	2,509	2,210	2,375	6,766	8,953	8,272	2,281	2,376	2,366
Metalworking machinery.....	344	397	918	869	2,411	3,319	2,823	709	900	799
General industrial machinery.....	1,063	1,110	1,072	1,163	2,867	3,714	3,363	1,066	1,011	1,122

SEE FOOTNOTES AT END OF TABLE.

Table 3.--VALUE OF MANUFACTURES: UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES
(Values of dollars)

Industry	Seasonally adjusted										Without seasonal adjustment ¹									
	Monthly					Quarterly					Last 4 months					Monthly				
	Aug. 1980 ^a	July 1980 ^a	June 1980	May 1980	1 1980	IV 1979	III 1979	II 1979	I 1979	Aug. 1980 ^a	July 1980 ^a	June 1980	May 1980	Aug. 1979	July 1979	June 1979	May 1979	June 1979	May 1979	June 1979
All manufacturing, durable and nondurable goods, total																				
1 All manufacturing industries:	282,663	282,463	281,064	284,033	286,907	279,717	273,033	267,837	258,168	281,655	282,354	280,616	284,306	268,812	268,604	267,941	265,116	265,116	265,116	265,116
2 Durable goods industries:	172,254	171,421	171,433	174,137	181,265	176,818	174,193	173,089	169,265	172,765	172,496	172,595	175,741	173,603	173,874	174,501	173,702	173,702	173,702	173,702
3 Nondurable goods industries:	273,160	272,062	270,383	272,981	274,884	267,870	261,742	257,187	247,706	271,242	271,780	269,867	273,032	257,882	258,041	257,179	254,741	254,741	254,741	254,741
4 Total:	10,483	10,401	10,661	11,052	12,023	11,818	11,291	10,650	10,442	10,413	10,574	10,769	11,276	10,930	10,634	10,762	10,762	10,762	10,762	10,762
Market categories																				
1 Consumer goods and apparel:	4,222	4,159	4,247	6,355	4,717	4,616	4,616	6,927	4,766	4,481	4,500	4,336	4,425	5,218	5,182	5,022	4,679	4,679	4,679	4,679
2 Equipment and defense products, except aircraft:	159,361	159,386	159,412	160,730	159,073	154,912	148,249	144,254	157,866	157,866	158,769	157,999	158,342	147,615	148,216	147,165	146,380	146,380	146,380	146,380
3 Construction materials, supplies, and intermediate products:	20,121	20,269	20,423	20,626	20,771	20,918	21,018	20,871	20,199	20,199	20,368	20,560	20,826	21,217	21,142	21,165	21,344	21,344	21,344	21,344
4 Other materials and supplies:	98,939	98,651	96,962	98,522	102,346	99,111	93,642	88,256	99,111	99,111	98,717	97,721	99,713	94,742	94,154	94,589	93,083	93,083	93,083	93,083
Supplementary series																				
1 Subtotal durable goods industries:	1,399	3,288	3,387	3,671	3,680	3,446	3,957	3,904	3,627	3,627	3,608	3,505	3,558	4,181	4,175	4,070	3,813	3,813	3,813	3,813
2 Capital goods industries:	190,202	190,296	188,821	189,386	185,519	179,313	167,208	159,806	188,757	189,386	189,389	187,207	187,999	168,746	167,941	165,983	163,809	163,809	163,809	163,809
3 Nondefense:	13,726	13,174	13,810	13,682	13,618	13,181	12,070	11,526	13,506	13,506	13,566	13,508	13,943	12,698	12,363	12,136	118,880	118,880	118,880	118,880
4 Defense:	56,478	53,922	55,011	52,902	49,401	47,447	45,138	44,388	53,695	53,695	53,825	52,124	52,356	44,046	44,398	44,447	44,470	44,470	44,470	44,470
Industry groups and industries																				
1 Fabricated metal products:	2,849	2,696	2,702	2,852	3,066	2,919	3,080	3,003	2,821	2,659	2,760	2,768	2,945	3,084	3,185	3,078	3,160	3,160	3,160	3,160
2 Machinery, except electrical:	26,551	25,692	25,139	25,982	27,528	29,949	30,276	31,658	31,041	26,400	25,779	25,907	27,271	29,981	31,238	32,665	33,066	33,066	33,066	33,066
3 Chemical and allied products:	15,747	14,727	14,358	14,770	17,349	18,101	18,877	20,688	20,622	15,653	14,918	14,961	15,730	18,869	20,341	21,116	22,073	22,073	22,073	22,073
4 Petroleum and coal products:	8,763	8,874	8,591	8,911	9,397	9,337	8,861	8,445	8,077	8,690	8,768	8,771	9,214	8,570	8,373	8,622	8,495	8,495	8,495	8,495
5 Fabricated metal products:	27,751	27,987	28,027	28,356	28,737	28,346	27,976	27,839	27,600	27,833	28,030	28,080	28,356	28,213	28,018	27,942	27,942	27,942	27,942	27,942
6 Machinery, except electrical:	56,567	56,926	56,695	57,432	59,494	58,779	57,585	57,105	56,268	56,811	57,123	56,851	57,538	57,436	57,474	57,260	56,615	56,615	56,615	56,615
7 Chemical and allied products:	16,325	16,225	16,412	16,738	16,767	16,655	16,785	16,869	16,880	16,262	16,170	16,286	16,616	16,716	16,688	16,731	16,648	16,648	16,648	16,648
8 Petroleum and coal products:	7,797	7,931	7,968	8,261	8,877	8,423	8,041	7,993	8,022	7,844	8,010	8,048	8,336	8,067	8,108	8,073	8,042	8,042	8,042	8,042
9 Machinery, except electrical:	7,227	7,566	7,586	7,798	7,798	7,111	6,757	6,111	5,693	7,386	7,536	7,541	7,561	6,485	6,283	6,074	6,009	6,009	6,009	6,009
10 General industrial machinery:	6,364	6,554	6,519	6,623	7,183	7,001	7,239	7,242	7,026	6,409	6,460	6,526	6,609	7,392	7,269	7,269	7,161	7,161	7,161	7,161

See footnotes at end of table.

Table 3.--VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry group	Seasonally adjusted										Without seasonal adjustment ¹							
		Monthly					Quarterly					Monthly							
		Aug. 1980 ²	July 1980 ²	June 1980	May 1980	I 1980	IV 1979	III 1979	II 1979	I 1979	Aug. 1980 ²	July 1980 ²	June 1980	May 1980	Aug. 1979	July 1979	June 1979	May 1979	
		INDUSTRY GROUPS AND INDUSTRIES--Continued																	
36	Electrical machinery, total...	38,973	38,437	38,830	38,782	37,944	35,631	34,858	33,845	32,518	39,096	38,597	38,685	38,610	34,589	33,968	33,725	33,27	
361.2	Electrical transmission and distribution equipment and industrial apparatus.....	7,958	7,992	8,000	8,003	7,657	7,531	7,418	7,254	6,914	7,960	7,986	7,988	8,043	7,423	7,228	7,240	7,157	
363	Household appliances.....	391	332	333	300	310	364	407	470	443	415	363	356	315	423	481	499	489	
365	Radio and TV.....	446	380	416	348	395	342	599	533	695	507	409	424	316	618	478	543	317	
366	Communication equipment.....	18,882	18,252	18,365	18,253	17,592	16,123	15,803	15,489	15,113	18,700	18,188	18,047	17,999	15,383	15,310	15,221	15,345	
367	Electronic components.....	10,405	10,589	10,792	10,927	11,014	10,308	9,644	9,159	8,472	10,592	10,737	10,943	10,993	9,738	9,487	9,278	9,052	
37	Transportation equipment, total.....	110,389	111,042	109,611	109,896	105,642	102,906	98,840	94,748	88,882	108,890	109,858	108,021	108,565	95,209	94,820	93,441	91,804	
372.6	Aircraft, missiles, and parts.....	89,587	90,247	88,827	87,994	81,804	77,929	73,098	69,254	63,096	88,118	88,937	87,127	86,576	69,947	69,243	67,881	65,831	
3731	Shipbuilding and military tank vehicles.....	11,641	11,241	11,205	11,500	11,237	11,297	11,146	10,895	10,924	11,558	11,382	11,332	11,512	10,929	10,948	11,010	11,295	
3795																			
38	Instruments and related products.....	6,200	6,237	6,295	6,397	6,459	5,985	5,830	5,628	5,407	6,277	6,289	6,341	6,327	5,826	5,730	5,668	5,477	
39	All other durable goods industries.....	3,080	3,047	3,084	3,284	3,514	3,317	3,297	3,361	3,189	3,276	3,344	3,194	3,420	3,544	3,607	3,460	3,424	

¹ Revised.² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.³ The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the VA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical Government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were developed by combining the existing end of fiscal year information with data for the previous calendar quarter, i.e., one quarter preceding the end of the fiscal year. These composite factors were applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense government orders since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. --VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Quarterly					Monthly									
												Last 4 months					Last 4 months (a year ago)				
		Aug. ^a 1980 ^b	July 1980 ^c	June 1980	May 1980	I 1980	IV 1979	III 1979	II 1979	I 1979		Aug. 1980 ^b	July 1980 ^c	June 1980	May 1980	Aug. 1979	July 1979	June 1979	May 1979		
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																					
	All manufacturing industries	243,630	244,105	243,630	243,402	238,522	228,258	221,341	213,942	205,752	242,859	242,990	243,494	244,901	217,893	214,979	213,818	212,123			
	Total, excluding trans- portation	210,160	211,156	210,942	211,200	207,075	198,342	192,703	186,605	180,018	209,033	210,362	211,164	212,685	189,545	187,558	186,848	185,152			
	Total for industries with unfilled orders	166,657	168,873	168,682	168,475	164,509	158,073	152,449	147,747	141,400	169,208	169,160	169,671	170,371	151,226	149,527	148,566	147,210			
	Durable goods, industries, total	161,190	160,875	160,404	160,607	157,127	151,689	146,048	141,480	135,266	161,115	160,646	161,087	162,275	144,370	142,752	142,041	140,697			
	Durable goods with unfilled orders	150,556	149,701	149,611	149,611	146,068	140,633	135,537	131,133	125,319	150,529	150,022	150,228	151,054	134,216	132,532	131,557	130,302			
	Nondurable goods, industries, total	82,230	83,230	83,226	82,795	81,395	76,569	75,293	72,462	70,485	81,744	82,344	82,407	82,626	73,523	72,227	71,777	71,426			
	Nondurable good with unfilled orders	16,101	18,663	18,981	18,864	18,441	17,439	16,912	16,614	16,082	18,679	19,138	19,443	19,317	17,010	16,995	17,009	16,908			
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																					
	Market categories	17,961	18,008	18,286	18,413	18,168	17,584	17,459	17,414	17,547	18,239	18,549	19,102	19,104	17,723	18,033	18,183	17,988			
	Home goods and apparel	31,173	31,018	30,418	30,351	30,420	29,749	29,425	28,587	27,487	30,790	29,915	29,495	29,749	28,653	27,663	27,682	27,554			
	Equipment and defense pro- ducts, except auto, stove	69,370	68,824	67,180	64,718	61,621	58,296	55,570	52,563	52,563	69,043	68,694	67,956	67,809	56,197	55,711	54,873				
	Auto and other equipment	9,174	9,347	9,647	10,019	10,183	10,347	11,249	11,177	11,126	9,252	8,776	9,384	9,896	11,553	10,894	10,880	11,399			
	Construction materials, sup- plies, and intermediate products	19,866	19,827	19,954	20,095	20,166	19,646	18,943	18,904	17,924	19,680	19,770	19,986	20,417	18,748	18,745	18,921	18,794			
	Other materials and supplies and intermediate products	96,076	97,081	97,506	97,344	94,867	89,311	85,970	82,290	79,105	95,855	97,286	97,571	97,926	86,318	83,447	82,441	81,515			
	Supplementary series																				
	Household durable goods indus- try	9,141	9,132	9,267	9,397	9,311	9,180	8,852	8,829	8,826	9,256	9,335	9,583	9,718	8,936	9,049	9,130	9,076			
	Capital goods industries	77,101	76,569	75,370	74,668	72,177	68,640	64,996	61,633	58,123	76,972	76,573	75,691	75,499	63,304	62,504	61,925	61,011			
	Nondefense	65,914	65,661	64,782	64,217	62,102	59,178	56,443	53,681	50,535	65,610	65,478	64,956	64,946	55,006	54,322	53,866	53,131			
	Defense	11,187	10,908	10,588	10,451	10,075	9,462	8,553	7,953	7,586	11,362	11,095	10,735	10,553	8,298	8,182	8,059	7,880			
INDUSTRY GROUPS AND INDUSTRIES																					
	Durable goods industries:																				
	Stone, clay, and glass products	6,036	6,079	6,161	6,089	5,987	5,643	5,436	5,361	5,140	5,967	6,109	6,195	6,257	5,380	5,445	5,406	5,449			
	Glass containers	585	580	593	610	597	547	564	538	513	593	598	603	615	558	569	546	531			
	Primary metals, total	20,600	20,861	20,884	20,979	20,387	19,803	19,033	18,618	17,832	20,470	20,811	20,831	20,938	18,982	18,759	18,575	18,199			
	Blast furnaces, steel mills, and other primary metals	11,439	11,539	11,751	11,726	11,151	10,834	10,457	10,312	9,853	11,427	11,481	11,598	11,550	10,572	10,312	10,178	9,835			
	Fabricated metal prod., total	7,805	7,918	7,741	7,812	7,848	7,563	7,166	6,915	6,677	7,719	7,965	7,795	7,898	7,033	7,070	6,963	6,950			
	Metal cans, barrels, and drums	19,158	19,134	19,451	19,816	19,659	19,402	18,716	18,512	17,751	19,189	19,295	19,636	20,156	18,622	18,632	18,668	18,441			
	Machinery, except electrical	1,310	1,370	1,439	1,568	1,502	1,554	1,397	1,369	1,297	1,302	1,484	1,606	1,760	1,379	1,471	1,526	1,503			
	Engines and turbines	39,402	39,339	38,940	39,079	37,609	36,624	35,527	34,053	32,491	38,966	39,070	39,144	39,466	34,688	34,317	34,223	33,866			
	Farm machinery and equipment	2,501	2,547	2,558	2,698	2,703	2,701	2,630	2,513	2,490	2,473	2,508	2,591	2,731	2,491	2,475	2,539	2,520			
	Construction, mining, and material handling equipment	3,256	3,214	3,195	3,209	3,114	3,108	2,913	2,828	2,688	3,139	3,175	3,237	3,286	2,760	2,786	2,862	2,835			
	Metalworking machinery	8,627	8,720	8,739	8,669	8,308	8,150	8,099	7,963	7,457	8,472	8,625	8,704	8,669	8,029	8,013	7,931	7,793			
	General industrial machinery	2,596	2,608	2,551	2,436	2,314	2,238	2,184	2,083	2,083	2,596	2,569	2,565	2,569	2,215	2,188	2,159	2,159			
	See footnotes at end of table.	3,768	3,730	3,725	3,730	3,671	3,650	3,520	3,322	3,252	3,745	3,737	3,766	3,753	3,454	3,453	3,359	3,355			

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)																
		Seasonally adjusted						Without seasonal adjustment ¹										
		Monthly			Quarterly			Monthly										
		Aug. ^p 1980	July 1980	June 1980	May 1980	I 1980	IV 1979	III 1979	II 1979	I 1979	Aug. ^p 1980	July 1980	Last 4 months 1980	Last 4 months (a year ago) 1979	June 1979	May 1979		
INDUSTRY GROUPS AND INDUSTRIES																		
36	Electrical machinery, total...	21,983	22,079	21,861	21,924	21,620	20,598	19,462	18,689	18,048	22,025	22,218	22,298	22,467	19,185	19,129	19,091	18,937
361,2	Electrical transmission and distribution equipment...	3,980	4,033	3,982	3,996	3,868	3,770	3,637	3,514	3,366	3,952	4,017	4,018	4,064	3,556	3,522	3,545	3,534
363	Household appliances...	1,891	1,932	1,998	2,092	2,161	2,116	1,958	1,955	2,021	1,884	1,979	2,121	2,253	1,957	1,990	2,076	2,107
365	Radio and TV...	1,081	1,095	1,084	1,101	1,053	1,039	970	989	1,012	1,134	1,141	1,131	1,253	1,029	1,073	1,033	1,033
366	Communication equipment...	8,273	8,252	7,992	7,916	7,741	7,095	6,588	6,134	5,830	8,297	8,220	8,025	8,019	6,438	6,247	6,159	6,070
367	Electronic components...	3,396	3,374	3,386	3,336	3,240	3,099	2,897	2,839	2,712	3,399	3,397	3,423	3,363	2,861	2,918	2,870	2,850
37	Transportation equipment, total...	33,480	32,951	32,688	32,202	31,447	29,916	28,638	27,337	25,734	31,826	32,628	32,330	32,216	28,348	27,421	26,970	26,971
371	Motor vehicles and parts...	7,176	7,238	7,485	7,775	7,827	8,012	8,672	8,820	8,769	7,320	6,760	7,261	7,635	9,294	8,627	8,564	9,002
372,6	Aircraft, missiles, and parts...	21,806	21,214	20,589	19,797	19,049	17,417	15,549	14,653	13,175	21,991	21,342	20,483	19,957	14,918	14,746	14,575	14,103
3731	Shipbuilding and military tank vehicles...	2,446	2,362	2,386	2,279	2,130	2,165	2,034	1,714	1,728	2,481	2,481	2,400	2,296	2,021	1,917	1,725	1,746
38	Instruments and related products, total...	8,403	8,425	8,393	8,351	8,237	7,765	7,471	7,317	7,004	8,410	8,464	8,525	8,510	7,502	7,479	7,436	7,319
381-4	Scientific and engineering...	5,957	5,944	5,859	5,759	5,597	5,291	5,021	4,780	4,540	5,921	5,932	5,923	5,839	4,919	4,860	4,833	4,744
386	Photographic goods...	2,013	2,049	2,083	2,131	2,155	1,986	1,941	2,031	1,960	2,053	2,094	2,141	2,197	2,076	2,104	2,086	2,057
24	All other durable goods industries...	12,328	12,027	12,046	12,167	12,181	11,936	11,766	11,594	11,267	12,262	12,051	12,128	12,265	11,663	11,570	11,672	11,515
20	Nondurable goods industries: Food and kindred products, total...	21,115	20,830	20,272	20,102	20,431	20,397	19,780	18,957	18,118	20,632	19,869	19,299	19,459	18,900	18,192	18,032	17,923
201	Meat products...	1,883	1,813	1,781	1,766	1,851	1,927	1,757	1,719	1,657	1,819	1,800	1,800	1,827	1,664	1,696	1,740	1,701
208	Beverages...	3,708	3,772	3,869	3,809	3,830	3,845	3,672	3,622	3,484	3,578	3,617	3,773	3,824	3,508	3,506	3,531	3,597
207	Fats and oils...	1,873	1,875	1,764	1,585	1,627	1,913	1,718	1,571	1,564	1,541	1,684	1,704	1,568	1,303	1,410	1,514	1,496
203-6,9	All other foods...	11,995	11,674	11,152	11,211	11,333	10,999	10,975	10,474	9,936	11,959	10,997	10,260	10,471	10,727	9,912	9,626	9,528
21	Tobacco products...	3,575	3,618	3,529	3,505	3,506	3,503	3,762	3,668	3,599	3,311	3,213	3,370	3,428	3,457	3,254	2,396	3,523
22	Textile mill products...	5,825	5,940	6,085	6,149	6,096	5,844	5,695	5,657	5,714	5,871	5,990	6,181	6,309	5,733	5,710	5,744	5,823
26	Paper and allied products, total...	7,172	7,442	7,598	7,479	7,296	6,795	6,422	6,315	6,054	7,190	7,576	7,726	7,653	6,362	6,317	6,422	6,398
261-3	Pulp, paper, etc...	2,681	2,670	2,656	2,604	2,435	2,319	2,143	2,087	2,048	2,683	2,682	2,691	2,654	2,143	2,113	2,116	2,129
265	Paperboard containers...	1,901	1,976	2,030	2,026	1,980	1,909	1,834	1,778	1,759	1,935	2,028	2,072	2,055	1,810	1,839	1,815	1,786
264	All other paper containers...	2,790	2,796	2,912	2,849	2,881	2,568	2,445	2,451	2,247	2,772	2,866	2,963	2,944	2,409	2,365	2,493	2,483
28	Chemicals and allied products, total...	18,444	18,964	19,330	19,451	18,677	16,982	16,492	15,916	15,627	18,264	18,767	18,979	19,233	16,094	15,920	15,664	15,797
281,6	Industrial chemicals, except pigments...	5,923	6,249	6,453	6,361	6,055	5,246	4,975	4,687	4,537	5,929	6,230	6,311	6,265	4,884	4,792	4,584	4,646
283,4	Drugs, soap, and toiletries...	5,627	5,680	5,707	5,693	5,531	5,333	5,210	5,181	5,022	5,632	5,698	5,798	5,767	5,185	5,209	5,264	5,184
29	Petroleum and coal products...	8,712	8,885	8,763	8,384	8,062	6,581	6,343	5,402	5,143	8,820	8,882	8,556	8,326	6,024	5,006	5,287	5,031
30	Rubber and plastics products, n.e.c...	4,495	4,769	4,817	4,986	4,954	4,777	4,940	4,859	4,716	4,409	4,705	4,826	5,052	4,822	4,894	4,867	4,91
23	All other nondurable goods industries...	12,692	12,782	12,832	12,739	12,373	11,690	11,859	11,688	11,514	13,047	13,342	13,470	13,166	12,131	12,334	12,265	12,018
31	Industries...																	

^p Preliminary.^r Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

² The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products-- Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products-- based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the M-175, Shipments of Defense Oriented Industries, for the specified industries.

Table 5.--VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP
(Millions of dollars)

Industry	Seasonally adjusted												Without seasonal adjustment												
	Monthly						Quarterly						Monthly												
	Aug. 1960 ^a	July 1960 ^a	June 1960	May 1960	I 1960	II 1960	III 1960	IV 1960	I 1961	II 1961	III 1961	IV 1961	Aug. 1960 ^a	July 1960 ^a	June 1960	May 1960	Aug. 1960 ^a	July 1960 ^a	June 1960	May 1960	Aug. 1960 ^a	July 1960 ^a	June 1960	May 1960	
																									Last 4 months (a year ago)
TOTAL																									
All manufacturing industries, total..	243,620	244,105	243,630	243,402	238,522	228,258	221,341	221,341	213,942	205,752	205,752	205,752	242,859	242,990	243,494	244,901	217,893	214,979	213,818	212,12	212,12	212,12	213,818	214,979	217,893
Durable goods industries, total.....	161,390	160,875	160,404	160,607	157,127	151,689	146,048	146,048	141,480	135,266	135,266	135,266	161,115	160,646	161,087	162,275	164,370	142,752	142,041	140,697	140,697	140,697	142,041	142,752	164,370
Chemical and allied products.....	6,136	6,079	6,114	6,089	5,987	5,643	5,436	5,436	5,361	5,140	5,140	5,140	5,967	5,910	6,195	6,257	5,380	5,445	5,406	5,406	5,406	5,406	5,445	5,380	5,445
Food, drink, and glass products.....	20,600	20,884	20,884	20,979	19,659	19,402	19,033	19,033	18,618	17,832	17,832	17,832	20,470	20,811	20,831	20,938	18,982	18,759	18,759	18,759	18,759	18,759	18,759	18,982	20,938
Textile millinery.....	19,158	19,134	19,151	19,186	19,659	19,402	19,033	19,033	18,512	17,751	17,751	17,751	19,189	19,295	19,636	20,156	18,622	18,632	18,632	18,632	18,632	18,632	18,632	18,982	20,156
Electrical machinery.....	9,402	9,339	9,380	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	9,379	
Transportation equipment.....	21,183	21,099	21,183	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	21,099	
Non-durable goods industries, total.....	33,403	33,951	33,688	33,202	31,427	29,916	28,638	28,638	27,317	25,734	25,734	25,734	33,826	33,230	32,330	32,216	28,348	27,129	26,970	26,970	26,970	26,970	27,129	28,348	
Food, drink, and glass products.....	8,403	8,425	8,393	8,351	8,237	7,765	7,471	7,471	7,317	7,004	7,004	7,004	8,410	8,464	8,525	8,510	7,502	7,479	7,436	7,436	7,436	7,436	7,479	8,510	
Textile millinery.....	12,328	12,027	12,046	12,167	12,181	11,936	11,766	11,766	11,594	11,285	11,285	11,285	12,262	12,051	12,128	12,265	11,663	11,570	11,672	11,672	11,672	11,672	11,570	11,663	
Transportation equipment.....	82,230	83,226	82,795	82,795	81,395	75,293	72,662	72,662	70,485	68,227	68,227	68,227	81,744	82,344	82,407	82,626	73,523	72,227	71,777	71,777	71,777	71,777	72,227	82,626	
Chemical and allied products.....	18,726	18,966	19,130	19,651	18,677	16,982	16,492	16,492	15,916	15,627	15,627	15,627	18,264	18,767	18,979	19,233	16,034	15,920	15,864	15,864	15,864	15,864	15,920	18,979	
Food, drink, and glass products.....	8,712	8,885	8,763	8,384	8,082	6,581	6,343	6,343	5,402	5,143	5,143	5,143	8,820	8,882	8,536	8,556	6,034	5,606	5,287	5,287	5,287	5,287	5,606	8,556	
Textile millinery.....	4,495	4,769	4,817	4,966	4,777	4,777	4,777	4,777	4,859	4,716	4,716	4,716	4,409	4,705	4,826	4,826	4,894	4,894	4,867	4,867	4,867	4,867	4,894	4,826	
Transportation equipment.....	50,579	50,612	50,316	49,702	48,229	47,518	46,285	46,285	44,999	44,999	44,999	44,999	50,251	49,990	50,046	50,015	46,583	45,807	45,807	45,807	45,807	45,807	46,583	49,990	
MATERIALS AND SUPPLIES																									
All manufacturing industries, total.....	80,513	82,146	81,264	83,071	82,314	79,114	75,770	75,770	73,072	71,162	71,162	71,162	80,727	81,907	82,239	82,775	75,692	73,371	72,747	72,747	72,747	72,747	73,371	82,775	
Durable goods industries, total.....	49,130	50,012	49,266	50,665	50,347	48,857	46,417	46,417	44,803	43,493	43,493	43,493	49,629	49,964	50,111	50,474	46,865	45,443	44,701	44,701	44,701	44,701	45,443	50,474	
Chemical and allied products.....	2,304	2,356	2,314	2,327	2,277	2,227	2,034	2,034	2,036	1,943	1,943	1,943	2,322	2,351	2,318	2,337	2,104	2,070	2,019	2,019	2,019	2,019	2,070	2,337	
Food, drink, and glass products.....	8,133	8,300	8,184	8,213	7,919	7,411	6,988	6,988	6,777	6,600	6,600	6,600	8,177	8,331	8,107	7,997	7,089	6,797	6,705	6,644	6,644	6,705	7,089	8,107	
Textile millinery.....	6,262	6,341	6,406	6,832	6,835	6,807	6,575	6,575	6,497	6,320	6,320	6,320	6,355	6,485	6,650	6,650	6,664	6,510	6,426	6,426	6,426	6,426	6,510	6,650	
Electrical machinery.....	11,110	11,123	11,187	11,035	10,962	10,732	9,918	9,918	9,507	9,082	9,082	9,082	11,072	11,240	11,124	11,061	9,764	9,678	9,515	9,515	9,515	9,515	9,678	11,061	
Transportation equipment.....	6,109	6,193	6,037	6,215	6,222	5,936	5,634	5,634	5,454	5,220	5,220	5,220	6,171	6,327	6,252	6,252	5,589	5,681	5,534	5,534	5,534	5,534	5,681	6,252	
Non-durable goods industries, total.....	7,852	8,404	8,736	8,642	8,501	8,351	8,044	8,044	7,625	7,687	7,687	7,687	8,095	8,277	8,532	8,594	7,562	7,562	7,550	7,550	7,550	7,550	7,562	8,594	
Food, drink, and glass products.....	2,389	2,397	2,472	2,391	2,611	2,403	2,292	2,292	2,217	2,122	2,122	2,122	2,413	2,526	2,526	2,410	2,315	2,293	2,239	2,239	2,239	2,239	2,293	2,526	
Textile millinery.....	4,991	4,918	5,112	4,990	5,019	4,990	4,932	4,932	4,690	4,519	4,519	4,519	5,024	4,941	4,857	4,884	4,848	4,732	4,629	4,629	4,629	4,629	4,732	4,884	
Transportation equipment.....	31,383	32,314	31,118	32,466	31,967	30,257	29,353	29,353	28,269	27,669	27,669	27,669	31,098	31,943	32,128	32,301	28,827	28,201	28,046	28,046	28,046	28,046	28,827	32,301	
Chemical and allied products.....	6,625	6,810	6,804	7,120	6,963	6,069	5,874	5,874	5,901	5,727	5,727	5,727	6,619	6,782	6,761	7,034	5,994	5,879	5,840	5,840	5,840	5,840	5,994	6,782	
Food, drink, and glass products.....	1,976	2,148	2,064	1,894	1,839	1,709	1,771	1,771	1,519	1,426	1,426	1,426	1,987	2,100	1,956	1,947	1,734	1,560	1,526	1,526	1,526	1,526	1,560	1,947	
Textile millinery.....	1,612	1,713	1,765	1,877	1,847	1,729	1,704	1,704	1,679	1,613	1,613	1,613	1,657	1,735	1,836	1,867	1,741	1,762	1,690	1,690	1,690	1,690	1,762	1,867	
Transportation equipment.....	21,170	21,623	21,642	21,515	21,338	20,750	20,004	20,004	19,170	18,833	18,833	18,833	20,835	21,305	21,575	21,453	19,358	19,020	18,990	18,990	18,990	18,990	19,020	21,453	
WORK IN PROCESS																									
All manufacturing industries, total.....	85,675	84,760	84,814	84,119	82,272	78,611	75,698	75,698	72,791	68,714	68,714	68,714	85,815	84,793	84,199	84,643	74,301	73,371	72,510	72,510	72,510	72,510	73,371	84,643	
Durable goods industries, total.....	73,274	72,892	71,511	71,411	69,585	66,837	63,810	63,810	61,411	57,720	57,720	57,720	73,393	72,118	71,643	71,852	62,655	61,809	61,193	61,193	61,193	61,193	61,809	71,852	
Chemical and allied products.....	873	796	800	856	836	836	827	836	831	831	831	831	863	897	907	908	816	832	860	860	860	860	832	908	
Food, drink, and glass products.....	7,159	7,232	7,139	7,315	6,936	7,013	6,904	7,013	6,689	6,279	6,279	6,279	7,205	7,350	7,350	7,350	6,891	6,792	6,644	6,644	6,644	6,644	6,792	7,350	
Textile millinery.....	8,050	7,967	8,032	8,164	8,221	8,085	7,717	8,085	7,635	7,132	7,132	7,132	8,148	8,044	8,119	8,313	7,730	7,604	7,712	7,712	7,712	7,712	7,604	8,119	
Electrical machinery.....	18,009	17,867	17,793	17,931	17,451	16,932	16,407	16,407	15,626	14,958	14,958	14,958	17,821	17,537	17,679	18,026	16,103	15,698	15,593	15,593	15,593	15,593	16,103	17,679	
Transportation equipment.....	11,004	10,915	10,695	10,662	10,518	10,064	9,435	9,435	8,905	8,472	8,472	8,472	11,027	10,891	10,817	10,824	9,210	9,007	8,991	8,991	8,991	8,991	9,007	10,824	
Non-durable goods industries, total.....	21,402	20,524	19,956	19,644	19,155	17,832	16,647	16,647	15,843	14,433	14,433	14,433	21,549	20,695	20,113	19,653	15,948	15,991	15,528	15,528	15,528	15,528	15,991	20,695	
Food, drink, and glass products.....	3,959	3,945	3,862	3,913	3,678	3,465	3,312	3,312	3,219	3,121	3,121	3,121	3,960	3,941	3,8,										

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average,	
	July-Aug. 1980	June-July 1980	May-June 1980	3 months			12 months	Average rise	Average decline
				May-Aug. 1980	Feb-May. 1980	Nov. 1979-Feb. 1980	Aug. 1979-Aug. 1980		
Shipments:									
All manufacturing industries.....	+1.2	+2.7	0.0	+1.3	-2.5	+1.9	+0.3	+1.6	-1.2
Durable goods industries.....	+0.7	+4.7	-0.6	+1.6	-4.3	+2.4	-0.2	+1.9	-1.9
Nondurable goods industries.....	+1.8	+0.9	+0.6	+1.1	-0.8	+1.5	+0.7	+1.6	-0.9
Inventories:									
All manufacturing industries.....	-0.2	+0.2	0.0	+0.0	+1.2	+1.3	+0.9	+0.7	-0.3
New orders:									
All manufacturing industries.....	+0.3	+6.0	-0.2	+2.0	-3.5	+1.7	+0.2	+1.9	-1.2
Durable goods industries.....	-1.5	+11.3	-1.3	+2.7	-6.0	+2.2	-0.2	+2.8	-2.0
Nondurable goods industries.....	+2.2	+1.0	+0.7	+1.3	-0.9	+1.2	+0.7	+1.5	-0.7
Unfilled orders:									
Durable goods industries.....	0.0	+0.6	-1.0	-0.1	-0.0	+1.0	+0.4	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	August 1980	July 1980	June 1980	May 1980	August 1980	July 1980	June 1980	May 1980
All manufacturing industries.....	1.66	1.68	1.72	1.72	3.72	3.71	3.82	3.83
Durable goods industries.....	2.22	2.23	2.32	2.31	4.45	4.48	4.60	4.61
Stone, clay, and glass products.....	1.52	1.50	1.62	1.60	0.74	0.74	0.79	0.83
Primary metals.....	1.92	2.03	2.13	2.04	2.47	2.50	2.57	2.53
Fabricated metals.....	2.19	2.21	2.31	2.35	3.50	3.55	3.67	3.71
Machinery, except electrical.....	2.80	2.82	2.82	2.89	4.35	4.43	4.44	4.61
Electrical machinery.....	2.12	2.19	2.21	2.18	3.76	3.82	3.92	3.86
Transportation equipment.....	2.34	2.24	2.52	2.42	13.47	12.94	14.02	13.71
Instruments and related products.....	2.38	2.50	2.51	2.50	1.76	1.85	1.88	1.92
Nondurable goods industries.....	1.11	1.14	1.15	1.15	0.71	0.68	0.71	0.74
Food and kindred products.....	0.97	1.00	0.98	1.00	(X)	(X)	(X)	(X)
Tobacco products.....	3.00	3.00	3.49	3.10	(X)	(X)	(X)	(X)
Textile mill products.....	1.47	1.48	1.54	1.54	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.30	1.27	1.32	1.32	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.39	1.47	1.55	1.53	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.60	0.64	0.59	0.57	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.19	1.32	1.41	1.51	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

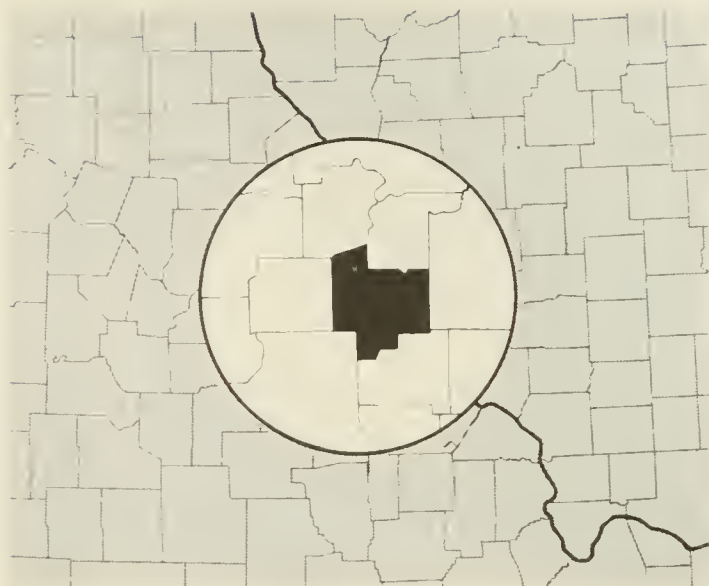
New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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